

Long-fibre reinforced polyolefin composition, process for its manufacture and product obtained from said composition

Publication number: EP1283102 (A2)

Publication date: 2003-02-12

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Classification:

- **International:** **C08J3/22; B29B9/06; B29B9/14; B29B11/10; B29C47/02; B29C47/10; B29C70/52; C08J5/04; C08K7/02; C08L23/00; C08L23/10; C08L45/00; C08L77/00; B29K23/00; B29K105/06; C08L23/08; C08J3/20; B29B9/02; B29B9/12; B29B11/00; B29C47/02; B29C47/10; B29C70/04; C08J5/04; C08K7/00; C08L23/00; C08L45/00; C08L77/00; (IPC1-7): B29C47/10; B29B9/14; C08J5/04; B29K23/00**

- **European:** B29B9/14; B29C47/02D; B29C47/10D; C08L23/10

Application number: EP20020017361 20020802

Priority number(s): DE20011037924 20010807

Also published as:

 EP1283102 (A3)
 US2003096898 (A1)
 US6844059 (B2)
 JP2003138031 (A)
 DE10137924 (A1)

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Cited documents:

 DD203059 (B)
 FR2407951 (A1)
 US5428098 (A)
 EP0451858 (A2)
 JP3207739 (A)

Abstract of EP 1283102 (A2)

A long fiber-reinforced polyolefin structure of length ≥ 3 mm contains by wt.: (A) a polyolefin other than (B) (0.1-90%); (B) an amorphous cycloolefin polymer (0.1-50%); (C) reinforcing fiber (5-75%); and (D) additives (up to 10%). Independent claims are also included for: (1) production of the structures by: (i) leading a fiber bundle (C) through a flat nozzle filled with (A), (B) and optionally (D); (ii) leading the thus-impregnated bundle through a forming nozzle; (iii) cooling and post-forming the bundle; and (iv) cutting the product into lengths or winding it up as a endless product; and (2) production of long fiber-reinforced articles containing an amorphous cycloolefin polymer by mixing a commercially-available long fiber-reinforced polyolefin structure with an amorphous cycloolefin polymer and then forming the required article.

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